



0400
0300

1

PATENT
0002-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of)
) Group Art Unit:
Jerrold E. Franklin)
Eric S. Mettler) Examiner:
Muralidharan P. Arikara)
Lawrence R. Bawden, Jr.)
)
U.S. Serial No.: 09/834,389)
)
Filed: April 13, 2001)
)
Title: INTEGRATED AND MODULAR)
BSP/MEA/MANIFOLD PLATES FOR)
FUEL CELLS)

Box IDS
Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231 on May 31, 2001.

Howard M. Peters (Reg. No. 29,202)

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))

Sir:

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international

application or before the mailing date of a first Office Action on the merits, whichever event occurs last, 37 C.F.R. § 1.97(b).

The art of interest is as follows:

AA. J. Divesek, et al. in U.S. Patent 4,445,994, issued May 1, 1984 disclose an electrolyzer cell for alkaline water electrolysis.

AB. H.J.A. Quaadvliet, in U.S. Patent 5,084,364, issued January 28, 1992 and assigned to Stichting Energieonderzoek discloses Centrum separator plates for use in a gas fuel cell which comprises a set of electrodes and also a stack of fuel cells.

AC. D.G. Epp, et al. in U.S. Patent 5,176,966 (and assigned to Ballard Power Systems, Inc.) disclose a fuel cell membrane electrode and a seal assembly.

AD. H. Tannenberger, et al. in U.S. Patent 5,328,779, issued June 12, 1994 (and assigned to Medicoat AG) discloses a fuel cell battery and electrolyte fuel cells thereof.

AE. U. Bossel, in U.S. Patent 5,338,621, issued August 16, 1994 (and not assigned) discloses an apparatus for converting chemical energy of fuel into electrical energy with a plurality of high temperature fuel cells.

AF. W.J. Fletcher, et al. in U.S. Patent 5,470,671, (and assigned to Ballard Power Systems, Inc.) disclose an electrochemical fuel cell which employs ambient air as both oxidant and coolant.

AG. R.G. Spear, et al. in U.S. Patent 5,683,828, (and assigned to H Power Corporation) disclose metal platelet fuel cells production and operation methods.

AH. R.G. Spear, et al. in U.S. Patent 5,585,567, (and assigned to H Power Corporation) disclose fuel cells employing integrated fluid management platelet technology.

AI. R.G. Spear, et al. in U.S. Patent 5,863,671, (and assigned to H Power Corporation) disclose plastic platelet fuel cells employing integrated fluid management.

AJ. W.D. Ernest, et al. in U.S. Patent 5,945,232, (and assigned to Plug Power, L.L.C.) disclose a PEM-type fuel cell assembly having multiple parallel fuel cell sub-stacks employing shared fluid plate assemblies and shared membrane electrode assemblies.

AK. R.A. Mercuri, et al. in U.S. Patent 5,976,727, (and assigned to UCAR Carbon Technology) disclose an electrically conductive seal for fuel cell components.

AL. W.A. Fuglevand, et al. in U.S. Patent 6,030,718, (and assigned to Avista Corporation) disclose a proton exchange membrane fuel cell power system.

AM. R.G. Spear, et al. in U.S. Patent 6,051,331, (and assigned to H Power Corporation) disclose fuel cell platelet separators having coordinate features.

AN. R.D. Breault, et al. in U.S. Patent 6,020,083, (and assigned to International Fuel Cells LLC) disclose a membrane electrode assembly for a PEM fuel cell.

AO. R.H. Barton, et al. in U.S. Patent 6,057,054, (and assigned to Ballard Power Systems, Inc.) disclose a membrane electrode assembly for an electrochemical fuel cell and a method of making an improved membrane electrode assembly.

AP. J.A. Ronne, et al. in U.S. Patent 6,066,409, (and assigned to Ballard Power Systems, Inc.) disclose an electrochemical fuel cell stack with improved reactant manifolding and sealing.

AQ. O. Schmid et al. in U.S. Patent 6,080,503, (and assigned to Ballard Power Systems, Inc.) disclose polymer electrolyte membrane fuel cells and stacks with adhesively bonded layers.

AR. S.D. Pratt, et al. in U.S. Patent 6,132,895, issued October 17, 2000 (assigned to Motorola) discloses a thin fuel cell found by slacking a plurality of membrane electrode assemblies (MEA) and a plurality of double sided distribution plates.

AS. A.P. Grasso, et al. in U.S. Patent 6,159,628, issued December 12, 2000 (assigned to International Fuel Cells, LLC) disclose the use of thermoplastic films to create seals and bond PEM cell components.

AT. M. Krisij, et al. in U.S. Patent 6,165,634 issued December 26, 2000 (assigned to International Fuel Cells, Inc.) disclose a fuel cell with improved sealing between individual membrane assemblies and plate assemblies.

AU. R.H. Barton, et al. in U.S. Patent 6,190,793, issued February 20, 2000, (assigned to Ballard Power Systems, Inc.) disclose an electrochemical fuel cell stack with an improved comparison assembly.

AV. J. Gordy, in U.S. Patent 4,548,675, (and assigned to New Fikes International) discloses a specific chemical mechanical pulping process under basic conditions.

BA. D.G. Epp in Canada 2,015,782 issued October 26, 1993, (and assigned to Ballard Power Systems, Inc.) teaches a membrane electrode assembly.

BB. O. Schmid et al. in U.K. Patent 2,348,047 published September 20, 2000 issued to Ballard Power Systems, Inc. teaches electrochemical cells.

BC. J.L. Davis in U.K. 2,326,017 published December 9, 1998, (and assigned to Motorola, Inc). teaches a bipolar plate for fuel cell assembly.

This Information Disclosure Statement under 37 C.F.R. 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

If additional fees are required for the filing of this document, the Commissioner for Patents is hereby authorized to charge or credit overpayment to Deposit Account No. 16-1331.

Respectfully submitted,

Date: May 31, 2001

Howard M. Peters (Reg. No. 29,202)
Attorney of Record
PETERS, VERNY, JONES & BIKŠA, LLP
385 Sherman Avenue, Suite 6
Palo Alto, CA 94306-1840
Telephone: (650) 324-1677
Facsimile: (650) 324-1678
Docket No.: 3737.02-1

Enclosures: PTO 1449 Form
References 25

f:\HMP\3737.02-1\IDS.trans.ltr.2.wpd